

Review Form 3

Journal Name:	Biotechnology Journal International
Manuscript Number:	Ms_BJI_125421
Title of the Manuscript:	Optimization of Biocatalytic Conversion of Rice Husk to Single Cell Protein Using Bacterial Fermentation
Type of the Article	

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p>	<p>The manuscript addresses a significant area of research, namely the utilization of rice husk for single-cell protein (SCP) production, which adds value to agricultural waste. While the topic is relevant and of interest, the current version of the manuscript requires substantial revisions in terms of structure, clarity and scientific presentation.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The title is very simple, it could be changed to:</p> <ol style="list-style-type: none"> 1. From Waste to Protein: Optimizing Rice Husk Utilization for Sustainable SCP Production 2. Turning Agricultural Waste into Value by Bacterial Fermentation of Rice Husk for SCP Synthesis 3. Harnessing Rice Husk for Biocatalytic SCP Production using A Sustainable Approach 4. Eco-friendly Protein: Biocatalytic Valorization of Rice Husk to Single-Cell Protein <p>Or something relevant.</p>	
<p>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</p>	<p>Other than some minor corrections, abstract is fine.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>Below are my detailed comments and suggestions for improvement and please find attached the manuscript with comments for revisions.</p> <p>Introduction:</p> <ol style="list-style-type: none"> 1. The introduction is too broad and lacks focus. It should be concise but informative, clearly stating the need for the study and positioning it within the context of similar works. The novelty of this research should also be highlighted more effectively. 2. Similar studies on SCP production from agricultural waste should be cited to provide context and relevance to your work. A comparison with other waste substrates and the significance of using rice husk should be included. 3. Please add more recent references to support the introduction. The current references are insufficient and outdated. A minimum of 15-20 references is generally expected for a paper of this type. <p>Methodology:</p> <ol style="list-style-type: none"> 1. The methodology section lacks clarity and detail. A well-structured and detailed methodology ensures the reproducibility of your study. 2. Ensure that the experimental design, such as statistical methods or optimization techniques (e.g., OFAT), is correctly explained. <p>Results: The results section is presented well, but additional data would help to strengthen the manuscript.</p> <p>Discussion:</p> <ol style="list-style-type: none"> 1. The discussion is brief and lacks depth. Only the OFAT section is covered, whereas other critical findings are left undiscussed. Please expand this section to include a comprehensive analysis of all the results obtained, with comparisons to similar studies. 2. It is crucial to discuss your findings in the context of existing literature and explain how your results contribute to the field of SCP production from agricultural waste. Address the benefits and limitations of your process compared to other methods. 	
<p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p>	<p>The manuscript addresses an important topic in sustainable biotechnology by utilizing rice husk, an abundant agricultural waste, for single-cell protein (SCP) production, which has significant potential to contribute to food security and waste management. It presents a well-structured optimization of biocatalytic processes using bacterial fermentation, which is a robust method for SCP production. The experimental design, including the application of optimization techniques such as OFAT, demonstrates technical soundness, though a more detailed explanation would strengthen reproducibility. The results align with similar studies in SCP production, supporting the validity of the approach and the promising yields obtained. Overall, the research offers a meaningful contribution to both the scientific community and industrial applications of sustainable protein production, particularly in addressing agricultural waste utilization.</p>	

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Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. -	The number of references is far below the acceptable standard and many of them are outdated. I recommend updating the reference list with more recent and relevant literature. Look for recent advances in biocatalytic processes, SCP production, and waste valorization. A minimum of 30 recent, high-quality references is expected.	
<u>Minor REVISION</u> comments Is the language/English quality of the article suitable for scholarly communications?	The manuscript contains numerous grammatical and scientific phrasing errors that hinder its readability. I suggest a thorough review of the manuscript by a professional language editor or someone proficient in scientific writing to improve clarity and coherence. Please make sure that the scientific nomenclature rules are followed throughout the manuscript.	
<u>Optional/General</u> comments		

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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